

CONNECTICUT RIVER BASIN

01188000 BURLINGTON BROOK NEAR BURLINGTON, CT

LOCATION.--Lat 41°47'10", long 72°57'55", Hartford County, Hydrologic Unit 01080207, on left bank 1.2 mi north of Burlington, 3 mi upstream from mouth, 2,000 ft east of the intersection of Covey Rd. and Hotchkiss Rd., and 3 mi southwest of Collinsville.

DRAINAGE AREA.--4.10 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1931 to current year.

REVISED RECORDS.--WSP 1301: 1933-45 (M). WDR-CT-83-1: Drainage area.

GAGE.--Water-stage recorder and compound sharp-crested weir. Datum of gage is 714.00 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for periods of estimated record, which are fair. Occasional regulation at low flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 7	0515	*157	*5.26			No other peak greater than base discharge.	

Minimum discharge, 0.33 ft³/s, Sept. 13, gage height, 1.70 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.1	1.6	e1.2	3.6	2.6	7.4	e8.8	22	1.3	0.79	1.2
2	2.6	1.1	1.4	e1.2	5.8	2.3	6.1	e8.6	6.3	1.3	1.9	3.2
3	1.7	1.2	1.3	e1.2	3.5	17	5.0	e13	4.3	1.2	4.4	3.5
4	1.3	1.6	1.2	e1.1	e2.8	8.6	6.2	7.5	3.6	1.0	1.8	1.9
5	1.1	1.4	1.2	e1.1	e2.3	4.7	4.8	6.2	5.0	0.92	1.2	1.6
6	1.1	1.4	1.2	e1.1	e2.0	3.9	4.4	5.5	23	0.88	0.98	1.00
7	1.1	1.1	1.2	2.0	e1.9	3.7	4.1	5.0	83	0.91	0.84	0.81
8	1.1	1.1	1.1	e1.8	e1.8	3.2	3.9	4.6	17	1.0	0.79	0.69
9	1.0	1.1	1.4	e1.7	e1.7	3.0	3.9	4.3	9.5	1.0	0.71	0.71
10	1.0	1.0	1.4	e1.6	e1.6	5.0	4.9	4.5	7.2	1.4	0.67	0.66
11	0.97	1.1	1.5	2.5	9.9	4.1	4.3	3.9	5.7	1.2	0.66	0.54
12	0.95	1.1	1.7	2.9	5.0	3.2	3.8	4.6	5.2	1.1	0.63	0.46
13	0.97	1.1	2.0	2.9	3.5	3.1	4.3	26	6.2	0.97	1.7	0.40
14	0.92	1.1	2.8	2.7	2.8	3.1	4.4	42	7.1	0.88	1.2	0.48
15	2.6	1.1	3.4	2.3	2.5	2.8	21	12	11	0.86	0.65	0.56
16	2.1	1.0	2.6	e2.1	2.5	3.4	11	7.9	8.6	0.87	0.57	1.2
17	1.8	1.0	2.2	e2.0	2.8	3.7	6.5	6.6	7.7	0.84	0.49	0.93
18	1.6	1.0	9.3	e2.0	3.1	3.2	5.3	32	5.1	0.84	0.49	0.72
19	1.1	1.1	5.5	e1.9	2.7	3.9	4.5	16	4.2	8.1	0.40	0.64
20	1.1	1.2	3.2	e1.8	2.4	5.0	4.3	8.8	3.8	7.6	3.8	0.65
21	1.1	1.3	2.8	e2.6	9.5	7.1	4.1	7.2	3.4	2.6	1.6	0.65
22	1.1	1.1	2.2	1.6	5.7	8.5	4.3	6.3	3.1	1.6	0.82	0.64
23	1.1	1.1	1.9	1.8	4.0	5.3	5.9	5.3	2.9	1.7	0.76	0.62
24	1.1	1.2	5.9	3.2	3.3	5.1	4.4	4.8	2.6	4.5	0.73	0.50
25	1.1	1.5	4.3	4.6	3.0	7.2	5.1	4.5	2.1	2.3	0.96	0.55
26	0.94	2.5	e2.8	3.3	2.8	6.9	9.6	4.2	2.0	1.6	0.76	0.59
27	1.0	1.8	e2.2	3.0	2.8	26	5.4	4.3	2.1	1.4	e0.61	3.2
28	0.97	1.5	e1.8	3.2	2.9	11	20	4.1	1.8	1.4	0.53	4.3
29	1.00	1.5	e1.5	3.8	---	6.9	25	4.1	1.7	2.2	3.2	2.2
30	1.1	1.7	e1.4	4.3	---	6.2	10	3.9	1.5	2.4	4.2	1.2
31	1.0	---	e1.3	3.5	---	5.4	---	12	---	1.5	1.7	---
TOTAL	40.22	38.1	75.3	72.0	98.2	185.1	213.9	288.5	268.7	57.37	40.54	36.30
MEAN	1.30	1.27	2.43	2.32	3.51	5.97	7.13	9.31	8.96	1.85	1.31	1.21
MAX	2.6	2.5	9.3	4.6	9.9	26	25	42	83	8.1	4.4	4.3
MIN	0.92	1.0	1.1	1.1	1.6	2.3	3.8	3.9	1.5	0.84	0.40	0.40
CFSM	0.32	0.31	0.59	0.57	0.86	1.46	1.74	2.27	2.18	0.45	0.32	0.30
IN.	0.36	0.35	0.68	0.65	0.89	1.68	1.94	2.62	2.44	0.52	0.37	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

MEAN	5.29	8.11	8.89	9.19	9.07	16.2	15.1	10.2	6.57	3.77	3.81	4.04
MAX	37.6	28.4	27.1	25.7	25.0	39.4	38.8	30.1	29.2	15.2	36.0	19.7
(WY)	1956	1956	1974	1996	1981	1983	1983	1989	1982	1938	1955	1999
MIN	1.02	1.23	2.13	1.07	2.02	5.97	4.26	3.42	1.45	0.80	0.65	0.77
(WY)	1942	1932	1932	1981	1934	2002	1985	1965	1957	1966	1999	1964

e Estimated.

01188000 BURLINGTON BROOK NEAR BURLINGTON, CT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1932 - 2002
ANNUAL TOTAL	2613.50	1414.23	
ANNUAL MEAN	7.16	3.87	8.35
HIGHEST ANNUAL MEAN			13.2
LOWEST ANNUAL MEAN			3.51
HIGHEST DAILY MEAN	160	Mar 22	673
LOWEST DAILY MEAN	0.65	Sep 8	0.16
ANNUAL SEVEN-DAY MINIMUM	0.73	Sep 3	0.24
MAXIMUM PEAK FLOW		157 Jun 7	a 1690 Aug 19 1955
MAXIMUM PEAK STAGE		5.26 Jun 7	b 9.22 Aug 19 1955
INSTANTANEOUS LOW FLOW		0.33 Sep 13	0.08 Sep 4 1995
ANNUAL RUNOFF (CFSM)	1.75	0.95	2.04
ANNUAL RUNOFF (INCHES)	23.71	12.83	27.67
10 PERCENT EXCEEDS	16	7.4	17
50 PERCENT EXCEEDS	3.2	2.2	4.9
90 PERCENT EXCEEDS	1.0	0.84	1.3

a From rating curve extended above 320 ft³/s on basis of computation of peak flow through orifice and over weir abutments at 676 ft³/s and 1,690 ft³/s.

b From high water marks.

